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特許協力条約に基づいて公開された国際出願

(51) 国際特許分類6 <b>C12N 15/11, C12Q 1/68 // G01N 33/566</b>	<b>A1</b>	(11) 国際公開番号 <b>WO 95/14772</b>  (43) 国際公開日 1995年6月1日 (01.06.95)
(21) 国際出願番号 PCT/JP94/01916 (22) 国際出願日 1994年11月11日(11.11.94)  (30) 優先権データ 特願平5/355504 1993年11月12日(12.11.93) JP  (71) 出願人：および (72) 発明者 松原謙一(MATSUBARA, Kenichi)[JP/JP] 〒565 大阪府吹田市山田東3-18-1-804 Osaka, (JP) 大久保公策(OKUBO, Kousaku)[JP/JP] 〒562 大阪府箕面市瀬川2-11-26 Osaka, (JP) (74) 代理人 弁理士 吉田研二, 外(YOSHIDA, Kenji et al.) 〒180 東京都武蔵野市吉祥寺本町1丁目34番12号 Tokyo, (JP)		(81) 指定国 AM, AU, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, JP, KG, KR, KZ, LK, LR, LT, LV, MD, MG, MN, NO, NZ, PL, RO, RU, SI, SK, TJ, TT, UA, US, UZ, VN, 欧州特許(AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI特許(BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG), ARIPO特許(KE, MW, SD, SZ).  添付公開書類 国際調査報告書 補正書
(54) Title : GENE SIGNATURE  (54) 発明の名称 ジーン・シグナチャー  (57) Abstract  A 3'-directed cDNA library which accurately reflects the abundance ratio of mRNA in a cell has been prepared from various human tissues, and sequencing of the cDNAs contained in the library has been conducted to examine the incidence of each cDNA in each tissue. As each cDNA has expression information with each tissue corresponding to the mRNA concentration, these cDNAs are usable as a probe or primer for detecting cell anomaly or discriminating cells. The cloned gene can produce proteins utilizable as a medicine or the like.		

Identifier: AAN00001 DNA Sequence 134 BP  
Release Info: Derwent Geneseq Database Release No. 200124; Date released 26-NOV-01  
Database  
XReference: WPI; 1995-206931/27.  
Accession  
Number: AAT22548  
Patent Title: Identifying gene signatures in 3'-directed human cDNA library - e.g. for diagnosis of abnormal cell function, by preparing cDNA that reflects relative abundance of corresp. mRNA in specific human tissues  
Patented by: (MATS/) MATSUBARA K.:(OKUB/) OKUBO K.  
Inventor: Matsubara K, Okubo K  
Description: Human gene signature HUMGS04161.  
Patent  
Number: WO9514772-A1  
Patent  
Publication 01-JUN-1995  
Date:  
Modification 01-OCT-1996 (first entry)  
Date:  
Local Filing: 11-NOV-1994; 94WO-JP01916  
Priority: 12-NOV-1993  
Abstract: A single-stranded DNA (or its complementary strand or the corresp. double-stranded DNA) which comprises one of the 7837 "GS" sequences given in AAT19001-T26837 and which is able to hybridise to part of human genomic DNA, cDNA or mRNA is claimed. The GS (Gene Signature) sequences were obtained from 3'-directed cDNA libraries prepared from various human tissues; synthesis of cDNA was initiated from the 3'-end of mRNA by using poly(T) as the sole primer. Since the 3'- untranslated sequence is unique to a particular mRNA species, almost all the 3'-oriented cDNAs hybridise with specific mRNAs. Each library is constructed so as to reflect accurately the relative abundance of different mRNAs in the particular tissue from which it was derived. The appearance frequency of a given GS in a cDNA library can be determined (esp. using primers and probes derived from the GS sequences) as a means of diagnosing abnormal cell function or for recognising different cell types.  
KeyWords: Gene signature;messenger RNA;mRNA;relative abundance;frequency;human;cloning;mapping;non-biased library;diagnosis;detection;cell typing;abnormal cell function;ss.  
Organism Homo sapiens.  
Sequence  
Composition: Sequence 134 BP; 32 A; 31 C; 47 G; 23 T; 1 other;  
Sequence: >AAT22548 WO9514772-A1 PA (MATS/) MATSUBARA PR 12-NOV-1993 PF 11-NOV-1994 Human gene signature HUMGS04161. [Homo sapiens.]  
GATCTGGACTGGCTGGGAGTGGGGAGGGCGTGGAGACAGTCTACGGAAAGCGCTANAGGA  
CCCCCGAGAGGGTGCACTGGAGCCCTGAGCATTGTAATATGCGGCCAGCCTATAAACAG  
CCTCCGTGCTTAAA